

Metabolite/Pathway Coverage

A total of 8000+ metabolite candidates with 1000+ metabolites with identification, including:

- **All metabolites** (600+ with identification) in Basic and Elevated Global Metabolomics Analysis
- Small Sugars (8+)
 - Short-Chain Fatty Alcohols (5+)

The metabolites cover more than 100 pathways, including:

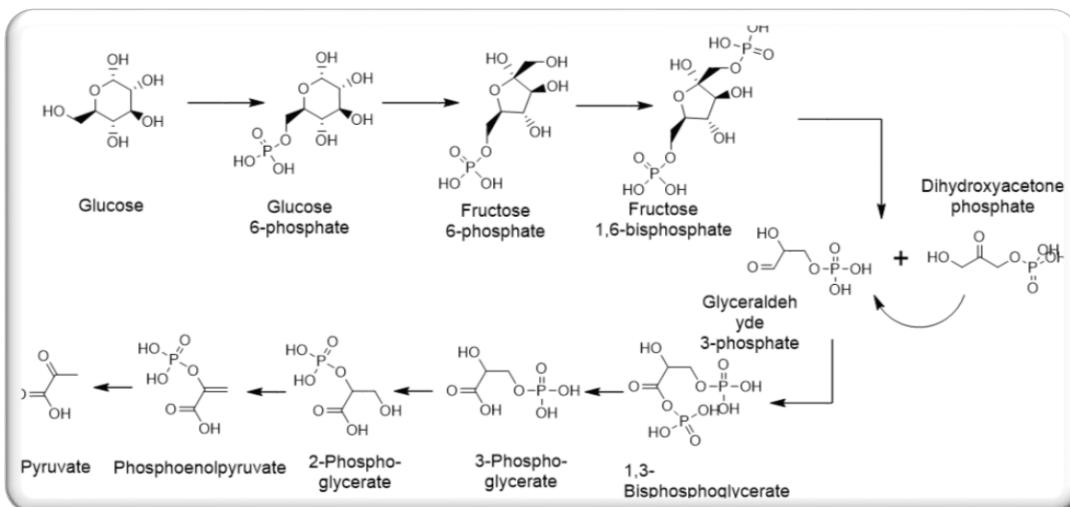
1) **All pathways with higher coverage** in Basic and Elevated Global Metabolomics Analysis, e.g.,

- | | |
|--|-----------------------------------|
| ✓ Arginine and Proline Metabolism (31) | ✓ Tyrosine Metabolism (30) |
| ✓ Tryptophan Metabolism (27) | ✓ Cyanoamino Acid Metabolism (23) |
| ✓ Phenylalanine Metabolism (22) | ✓ Citric Acid Cycle (8) |
| ✓ Phenylpropanoid Biosynthesis (17) | ✓ Aminobenzoate Degradation (19) |

2) **Additional new pathways** are covered, e.g.,

- | | |
|--|---------------------------------|
| ✓ Fructose and Mannose Metabolism (15) | ✓ Galactose Metabolism (10) |
| ✓ Glycolysis / Gluconeogenesis (8) | ✓ Pentose phosphate pathway (5) |
| ✓ Starch and sucrose metabolism (5) | ✓ |

Pathway Example



Glycolysis

Coverage with Comprehensive Analysis

- Acetic acid
- Lactic acid
- Glucose
- Pyruvic acid
- Glucose 6-phosphate /Fructose 6-phosphate
- Glycerone phosphate /Glyceraldehyde 3-phosphate
- 3-Phospho-glyceric acid/ 2-Phospho-glyceric acid

Significance

Glucose is the main source of fuel for most organisms. As the major component of metabolism to produce energy in the form of ATP from glucose, glycolysis is an essential metabolic pathway. The process also produces useful intermediates for other metabolic pathways, such as the synthesis of amino acids or fatty acids.